

# EXHIBIT C



Thinking about evidence, and vice versa

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# [109] Data Falsificada (Part 1): "Clusterfake"

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Posted on June 17, 2023 by Uri, Joe, & Leif

This is the introduction to a four-part series of posts detailing evidence of fraud in four academic papers co-authored by Harvard Business School Professor Francesca Gino.

In 2021, we and a team of anonymous researchers examined a number of studies co-authored by Gino, because we had concerns that they contained fraudulent data. We discovered evidence of fraud in papers spanning over a decade, including papers published quite recently (in 2020).

In the Fall of 2021, we shared our concerns with Harvard Business School (HBS). Specifically, we wrote a report about four studies for which we had accumulated the strongest evidence of fraud. We believe that many more Gino-authored papers contain fake data. Perhaps dozens.

The process that ensued at HBS is confidential (for us also). But here are some things we know:

(1) As you can see on her Harvard home page ([.htm](#)), Gino has gone on "administrative leave", and the name of her chaired position at HBS is no longer listed.

(2) We understand that Harvard had access to much more information than we did, including, where applicable, the original data collected using Qualtrics survey software. If the fraud was carried out by collecting real data on Qualtrics and then altering the downloaded data files, as is likely to be the case for three of these papers, then the original Qualtrics files would provide airtight evidence of fraud. (Conversely, if our concerns were misguided, then those files would provide airtight evidence that they were misguided.)

(3) We have learned (from knowledgeable sources outside of Harvard) that a few days ago Harvard requested that three of the four papers in our report be retracted. A fourth paper, discussed in today's post, had already been retracted, but we understand that Harvard requested the retraction notice be amended to include mention of this (additional) fraud.

(4) The evidence of fraud detailed in our report almost certainly represents a mere subset of the evidence that the Harvard investigators were able to uncover about these four articles. For example, we have heard from some HBS faculty that Harvard's internal report was ~1,200 pages long, which is 1,182 pages longer than the one we sent to HBS.

(5) To the best of our knowledge, none of Gino's co-authors carried out or assisted with the data collection for the studies in question.

In this series, we provide a blog-friendlier and updated version of what was in our report, plus a few additional analyses. Our report focused on four studies, and so we will write four posts, one for each study. The posts will differ in length, with this one and the fourth one being a big lengthier. We *hope* to publish the three remaining posts within a week.

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## ***Part 1: Clusterfake***

Shu, Mazar, Gino, Ariely, & Bazerman (2012), Study 1

"Signing at the beginning makes ethics salient...." *Proceedings of the National Academy of Sciences*

Two summers ago, we published a post (Colada 98: [.htm](#)) about a study reported within a famous article on dishonesty ([.htm](#)). That study was a field experiment

conducted at an auto insurance company (The Hartford). It was supervised by Dan Ariely, and it contains data that were fabricated. We don't know for sure who fabricated those data, but we know for sure that none of Ariely's co-authors – Shu, Gino, Mazar, or Bazerman – did it [1]. The paper has since been retracted ([.htm](#)).

That auto insurance field experiment was Study 3 in the paper.

It turns out that Study 1's data were also tampered with...but by a different person.

That's right:

***Two different people independently faked data for two different studies in a paper about dishonesty.***

The paper's three studies allegedly show that people are less likely to act dishonestly when they sign an honesty pledge at the top of a form rather than at the bottom of a form. Study 1 was run at the University of North Carolina (UNC) in 2010. Gino, who was a professor at UNC prior to joining Harvard in 2010, was the only author involved in the data collection and analysis of Study 1 [2].

### **Study Description**

Participants (N = 101) received a worksheet ([.png](#)) with 20 math puzzles and were offered \$1 for each puzzle they (reported to have) solved correctly within 5 minutes.

After the 5 minutes passed, participants were asked to count how many puzzles they solved correctly, and to then throw away their worksheet. The goal was to mislead participants into thinking that the experimenter could not observe their true performance, when in fact she could, because each worksheet had a unique identifier. Thus, participants could cheat (and earn more money) without fear of being caught, while the researchers could observe how much each participant had cheated.

Participants then completed a "tax" form reporting how much money they had earned, and also how much time and money they spent coming to the lab. The experimenters partially compensated participants for those costs.

In sum, participants had an opportunity and incentive to lie about how many puzzles they solved correctly, and about the costs they incurred to come to the lab.

The study manipulated whether the tax forms required participants to sign at the top or at the bottom (or not at all).

**SIGN AT THE BOTTOM**

Shu et al. 10.1073/pnas.1209746109

<b>Form 3305</b> (Rev. June 2010) Center for Decision Research		<b>Research Study Tax Return</b> For the period June 1, 2010, through August 30, 2010 OMB No. 1555-0111		Keep a copy of this return for your records. OMB No. 1555-0111
Write Clearly	Name	PID	For Administrative Use Only	
	Address (Number, street, and room or suite number)			T .....
	City, State, and ZIP code			FF .....
			I .....	
			TL .....	
<b>Part 1</b> Please fill out the questions below to compute your taxed payment.				
1. Please enter the payment you received on the problem solving task (\$1 per correct matrix you solved in the other room) .....			1	
2. Tax on payment: Please enter the equivalent of a 20% tax on your payment (i.e., 20 cents for every dollar earned) .....			2	
3. Please subtract the value specified in box 2 from value specified in box 1 .....			3	
<b>Part 2</b> Participants will be compensated for extra expenses they have incurred in order to participate in this study. In Part 2, you are asked to estimate the costs incurred in order to participate. These costs will be deducted from your tax return.				
1. Please estimate the time it took you to come to the lab. You will be compensated \$0.10 per minute, up to a 2 hour maximum .....			4	
2. Please estimate the cost of your commute, if any, to come to the lab. You will be compensated up to a maximum of \$12 .....			5	
3. Please add the value specified in box 4 and the value specified in box 5 .....			6	
<b>Part 3</b> Please compute your final payment.				
1. Please add the value specified in box 3 and the value specified in box 6. This is the amount of your final payment for today's session .....			7	
<b>Sign Here</b> I declare that I carefully examined this return and that to the best of my knowledge and belief it is correct and complete. Signature _____ Date _____				

Fig. S1. Tax form used in experiment 1, signature-at-the-bottom condition.

**SIGN AT THE TOP**

<b>Form 3305</b> (Rev. June 2010) Center for Decision Research		<b>Research Study Tax Return</b> For the period June 1, 2010, through August 30, 2010 OMB No. 1555-0111		Keep a copy of this return for your records. OMB No. 1555-0111
Write Clearly	Name	PID	For Administrative Use Only	
	Address (Number, street, and room or suite number)			T .....
	City, State, and ZIP code			FF .....
			I .....	
			TL .....	
<b>Part 1</b> Please fill out the questions below to compute your taxed payment.				
1. Please enter the payment you received on the problem solving task (\$1 per correct matrix you solved in the other room) .....			1	
2. Tax on payment: Please enter the equivalent of a 20% tax on your payment (i.e., 20 cents for every dollar earned) .....			2	
3. Please subtract the value specified in box 2 from value specified in box 1 .....			3	
<b>Part 2</b> Participants will be compensated for extra expenses they have incurred in order to participate in this study. In Part 2, you are asked to estimate the costs incurred in order to participate. These costs will be deducted from your tax return.				
1. Please estimate the time it took you to come to the lab. You will be compensated \$0.10 per minute, up to a 2 hour maximum .....			4	
2. Please estimate the cost of your commute, if any, to come to the lab. You will be compensated up to a maximum of \$12 .....			5	
3. Please add the value specified in box 4 and the value specified in box 5 .....			6	
<b>Part 3</b> Please compute your final payment.				
1. Please add the value specified in box 3 and the value specified in box 6. This is the amount of your final payment for today's session .....			7	

## Results

The paper reported very large effects. Signing at the top vs. the bottom lowered the share of people over-reporting their math puzzle performance from 79% to 37% ( $p = .0013$ ), and lowered the average amount of over-reporting from 3.94 puzzles to 0.77 puzzles ( $p < .00001$ ). Similarly, it nearly halved the average amount of claimed commuting expenses, from \$9.62 to \$5.27 ( $p = .0014$ ).

## The Data Anomaly: Out-of-Order Observations

We obtained the data from the Open Science Framework ([.htm](#)), where it has been posted since 2020, as a result of a replication ([.htm](#)) conducted by a team of researchers that included the original authors.

The posted data seem to be sorted by two columns, first by a column called “Cond”, indicating participants’ condition assignment (0 = control; 1 = sign-at-the-top; 2 = sign-at-the-bottom), and then by a column called “P#”, indicating a Participant ID number assigned by the experimenter.

For example, the screenshot below shows a portion of that spreadsheet, with some observations from the sign-at-the-top and sign-at-the-bottom conditions. You can see that within each condition the data are *almost* perfectly sorted by Participant ID (the first column on the left).

What's relevant here is precisely that **the sorting is only *almost* perfect.**

We've highlighted 8 observations that are either duplicated or out-of-sequence [3]:

	A	B	C	D	E	F	G	H	I
1	P#	Cond	Stude	Major	CS3	Male	Age	#B	\$B
47	35	1	1	Journalism	3	1	19	12	12
48	37	1	1	Economics	4	0	21	9	9
49	40	1	1	Political Science	5	1	29	15	15
50	42	1	1	Political Science	3	0	20	7	7
51	46	1	1	Political Science	4	0	21	12	12
52	49	1	1	English	4	1	21	9	9
53	49	1	1	English	4	1	21	7	7
54	55	1	1	Biology	4	1	21	12	12
55	58	1	1	Environmental Sciences	3	0	20	10	10
56	61	1	1	Nursing	3	0	20	15	15
57	63	1	0	NA		0	22	12	12
58	68	1	1	Business	3	1	20	16	16
59	70	1	1	Chemistry	4	0	21	11	11
60	73	1	1	Chemistry	5	0	20	16	16
61	76	1	1	Chemistry	2	1	19	15	15
62	80	1	1	Nursing	4	0	21	15	15
63	82	1	1	Economics	4	1	21	9	9
64	85	1	1	Psychology	4	0	20	5	5
65	88	1	1	Chemistry	3	0	20	13	13
66	95	1	1	Math Education	3	1	22	13	13
67	51	1	0	NA	0	0	52	4	4
68	12	1	1	Psychology	3	0	20	13	13
69	101	1	0	Business	3	1	20	6	6
70	7	2	0	Political Science	5	1	22	17	17
71	91	2	1	Japanese	2	1	20	17	17
72	52	2	0	NA	5	0	22	8	8
73	5	2	1	Biology/Psychology	2	0	18	16	16
74	8	2	1	Communication Studies	4	0	22	15	15
75	13	2	1	Chemistry	4	0	20	18	18
76	17	2	1	Communications	4	0	21	14	14
77	18	2	1	Communications	4	1	22	13	13
78	22	2	0			0	23	13	13
79	26	2	0			0	47	6	6
80	27	2	1	Mathematics - Sociology	3	1	19	18	18

Participant ID 49 appears twice in the dataset, with identical demographic information. In addition, there are 6 participants in adjacent rows with IDs out of sequence, three from condition 1 (Sign At The Top), then three in condition 2 (Sign At The Bottom).

This is much more problematic than it may appear.

There is no way, to our knowledge, to sort the data to achieve this order. This means that these rows of data were either moved around by hand, or that the P#s were altered by hand. We will see that it is the former.

If this data tampering was done in a motivated fashion, so as to manufacture the desired result, then we would expect those suspicious observations to show a

particularly strong effect for the sign-on-the-top vs. sign-on-the-bottom manipulation.

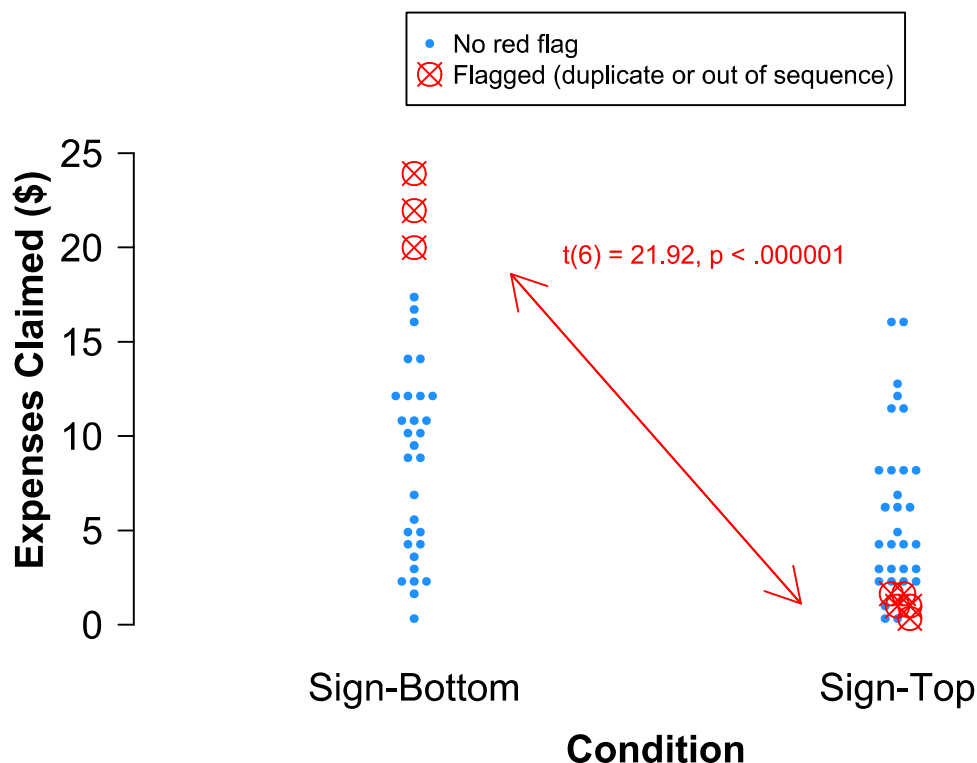
And they do.

### **Suspicious Rows Show A Huge Effect**

The figure below shows all observations in the two conditions of interest. The 8 suspicious observations mentioned above show a huge effect in the predicted direction. They are all among the most extreme observations within their condition, and all of them in the predicted direction.

### **Flagged Observations Show Huge Effect**

*Travel Expenses in Study 1 - Shu et al. (2012)*



With just  $n = 8$  they produce  $t(6) = 21.92$ , with a miniscule  $p$ -value. The t-test for the other dependent variable, overreported performance on the puzzle task, is less extreme, but still produces  $t(6) = 4.48, p = .004$  with just 8 observations.

[.csv file](#) and [R Code](#) to reproduce analyses.

### **Excel files contain multitudes**

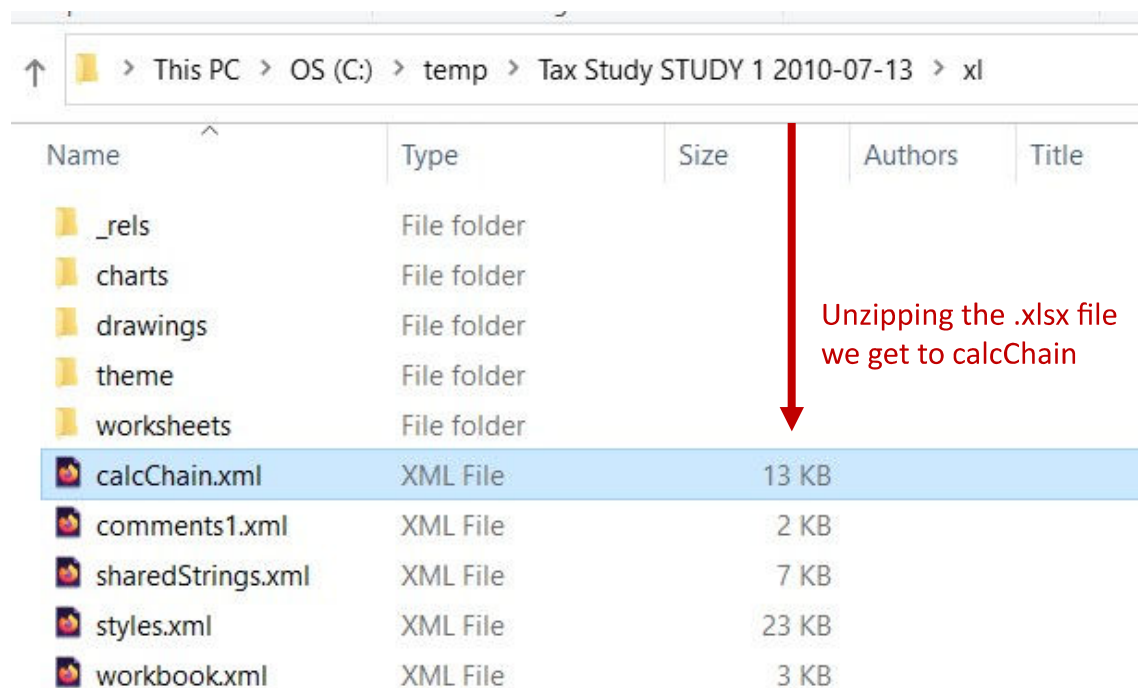
The data for Study 1 were (also) posted as an Excel file ([.xlsx](#)). And that Excel file contains formulas. From a data forensic perspective, this is extremely valuable.

A little known fact about Excel files is that they are literal zip files, bundles of smaller files that Excel combines to produce a single spreadsheet [4]. For instance, one file in that bundle has all the numeric values that appear on a spreadsheet, another has all the character entries, another the formatting information (e.g., Calibri vs. Cambria font), etc.

Most relevant to us is a file called *calcChain.xml*.

CalcChain tells Excel in which order to carry out the calculations in the spreadsheet. It tells Excel something like "First solve the formula in cell A1, then the one in A2, then B1, etc." CalcChain is short for 'calculation chain'.

The image below shows how, when one unzips the posted Excel file, one can navigate to this calcChain.xml file (it is easier to read .xml files in a browser, say Firefox).



CalcChain is so useful here because it will tell you whether a cell (or row) containing a formula has been moved, and where it has been moved to. That means that ***we can use calcChain to go back and see what this spreadsheet may have looked like back in 2010, before it was tampered with!***

Let's first see a concrete example of how one can use calcChain to do this.

Say you create a multiplication table in Excel for the number 7. Column B has numbers 1-10 typed-in, and Column C has formulas like " $=B7*7$ ". See the left panel below.

**Original**

	A	B	C	D
1		X	7*X	
2		1	7	
3		2	14	
4		3	21	
5		4	28	
6		5	35	
7		6	42	
8		7	49	
9		8	56	
10		9	63	
11		10	70	

**Moving C7 to C12**

	A	B	C	D
1		X	7*X	
2		1	7	
3		2	14	
4		3	21	
5		4	28	
6		5	35	
7				
8		7	49	
9		8	56	
10		9	63	
11		10	70	
12		6	42	

Let's say we decide to tamper with this multiplication table and move row 7 to row 12, as in the right panel above.

Because column C has formulas, calcChain needs to record in which order to solve them. Importantly, it will have *the order in which those formulas were initially entered into the spreadsheet*. It will indicate to first solve C2, then C3, and so on. Critically, when a cell is moved, its order of calculation is not. That means that in the example above, Excel continues to compute  $6*7$  right after it computes  $5*7$ , and right before it computes  $7*7$ , *no matter where you move that cell to*.


The image below shows the clunky way in which calcChain stores that information for the example above (in .xml format). Despite its clunkiness, it's easy enough to use it to figure out that for the spreadsheet on the left all calculations are in a predictable sequence, and that for the spreadsheet on the right, what is now in cell C12 used to be between cells C6 and C8.

**calcChain for original file**

```

<?xml version="1.0" encoding=
- <calcChain xmlns="http://sch
  <c i="1" i="1" r="C11"/>
  <c i="1" r="C10"/>
  <c i="1" r="C9"/>
  <c i="1" r="C8"/>
  <c i="1" r="C7"/>
  <c i="1" r="C6"/>
  <c i="1" r="C5"/>
  <c i="1" r="C4"/>
  <c i="1" r="C3"/>
  <c i="1" r="C2"/>
</calcChain>

```



Calculations done in order  
C2 then C3 then C4...

**calcChain after moving C7 to C12**

```

<?xml version="1.0" encoding="UTF-8"
<calcChain xmlns="http://schemas.o
  <c i="1" i="1" r="C11"/>
  <c i="1" r="C10"/>
  <c i="1" r="C9"/>
  <c i="1" r="C8"/>
  <c i="1" r="C12"/>
  <c i="1" r="C6"/>
  <c i="1" r="C5"/>
  <c i="1" r="C4"/>
  <c i="1" r="C3"/>
  <c i="1" r="C2"/>
</calcChain>

```

We can tell C12 used to be  
between C6 and C8...

Now, with that crash course on calcChain behind us, let's put it to use in the posted Excel file for Study 1 from that PNAS paper.

### Applying calcChain to Study 1

We used calcChain to see whether there is evidence that the rows that were out of sequence, and that showed huge effects on the key dependent variables, had been manually tampered with. And there is.

For your convenience, here is a smaller spreadsheet screenshot, highlighting the six out-of-sequence rows.

	A	B	C	D	E	F
1	P#	Cond	Stude	Major	CS3	Male
62	80	1	1	Nursing	4	0
63	82	1	1	Economics	4	1
64	85	1	1	Psychology	4	0
65	88	1	1	Chemistry	3	0
66	95	1	1	Math Education	3	1
67	51	1	0	NA	0	0
68	12	1	1	Psychology	3	0
69	101	1	0	Business	3	1
70	7	2	0	Political Science	5	1
71	91	2	1	Japanese	2	1
72	52	2	0	NA	5	0
73	5	2	1	Biology/Psychology	2	0
74	8	2	1	Communication Studies	4	0
75	13	2	1	Chemistry	4	0
76	17	2	1	Communications	4	0
77	18	2	1	Communications	4	1
78	22	2	0			0
79	26	2	0			0

Let's look up those 6 rows on calcChain.

## 1. Row 70.

Looking up row 70 in calcChain reveals something almost as easy to parse as the multiplication table above. Row 70 used to be between rows 3 and 4.

```
<c r="R3" i="1"/>
<c r="S3" i="1"/>
<c r="R70" i="1"/>
<c r="R4" i="1"/>
<c r="S4" i="1"/>
<c r="R5" i="1"/>
<c r="S5" i="1" s="1"/>
<c r="R6" i="1"/>
```

Rows 3 and 4 are obviously at the top part of the spreadsheet (see screenshot below). And because the spreadsheet is sorted by condition, those rows are in Condition 0, which is the control condition. This means that row 70, now in Condition 2, used to be surrounded by rows that were in Condition 0.

	A	B	C	D	E	F	G
1	P#	Cond	Stude	Major	CS3	Male	Age
2	2	0	1	Business	4	1	21
3	3	0	1	Clinical Laboratory Science	4	0	21
4	10	0	1	Dramatic Arts & Communication	3	0	20
5	13	0	1	Library Science	5	0	26
6	15	0	1	Environmental Sciences	5	1	22
7	19	0	1	Psychology	3	0	20
8	21	0	1	Psychology	5	1	23
9	24	0	1	African American Studies	4	0	23

Additionally, notice that rows 3 and 4 have participant IDs #3 and #10. Row 70, remember, has ID #7, so it used to be, before it was moved by hand, in exactly the expected position (between 3 and 10) if (1) that observation was originally in Condition 0, and (2) the spreadsheet was sorted by condition and ID, as it is.

All of this strongly suggests that row 70 was moved from the control condition (Condition 0) to the sign-at-the-bottom condition (Condition 2).

Analyses of calcChain for the 5 other out-of-sequence observations similarly support the hypothesis that an analyst (manually) moved observations from one condition to the other. Click the links below to see them.

## [Close Row 68](#)

Row 68 is in Condition 1 and has ID #12.

It was moved by hand from between rows 74 and 75 which have participant IDs #8 & #13. Before being out of sequence in Condition 1, it was in sequence in Condition 2, suggesting that it was moved from the sign-at-the-bottom condition to the sign-at-the-top condition.

```
<c r="R73" i="1"/>
<c r="S73" i="1"/>
<c r="R74" i="1"/>
<c r="S74" i="1"/>
<c r="R68" i="1"/>
<c r="S68" i="1"/>
<c r="R75" i="1"/>
<c r="S75" i="1" s="1"/>
```

### Close Row 67 & 72

Rows 67 and 72 are in Conditions 1 and 2 respectively. CalcChain suggests they were moved by hand from current rows 17 and 18, which are in Condition 0 (the control condition).

```
<c r="R17" i="1"/>
<c r="S17" i="1"/>
<c r="R67" i="1"/>
<c r="S67" i="1" s="1"/>
<c r="R72" i="1"/>
<c r="S72" i="1"/>
<c r="R18" i="1"/>
<c r="S18" i="1" s="1"/>
```

Rows 17 and 18, in turn, have participant ids #50 and #53, perfectly bracketing the two IDs that were moved (#51 and #52).

### Close Row 69

This one is a bit harder to read.

```

<c r="D11" i="2"/>
<c r="C11" i="2"/>
<c r="E7" i="2"/>
<c r="R69" i="1"/>
<c r="S69" i="1"/>
<c r="P69" i="1"/>
<c r="M69" i="1"/>
<c r="Q69" i="1"/>
<c r="R34" i="1"/>
<c r="S34" i="1" s="1"/>
<c r="P34" i="1"/>
<c r="M34" i="1"/>

```

It would seem that row 69 used to be between rows 7 and row 34. But, look at that `i='2'` in E7. It means that that observation is in another sheet, sheet #2, which contains summary statistics. What we do know is that Row 69 used to be right before Row 34, and so it was in Row 33.

If we look at what is row 33 is now, it is the only observation in the control condition that is out of sequence. This suggests that the observations may have been swapped, perhaps to maintain a balanced number of observations.

### Close Row 71

This row has ID# 91 and appears as Condition 2. It was moved by hand from between rows 99 and 100, which have ID#s 90 and #92. So, while it matches the logic discussed above, out-of-sequence rows were moved by hand from an original position where they were in-sequence: It was moved from Condition 2 to Condition 2. This is a manual alteration of the spreadsheet that did not alter the results of the study. It may have been a mistake by the data tamperer, it may have been an incidental move, or we may not be fully understanding what calcChain is telling us.

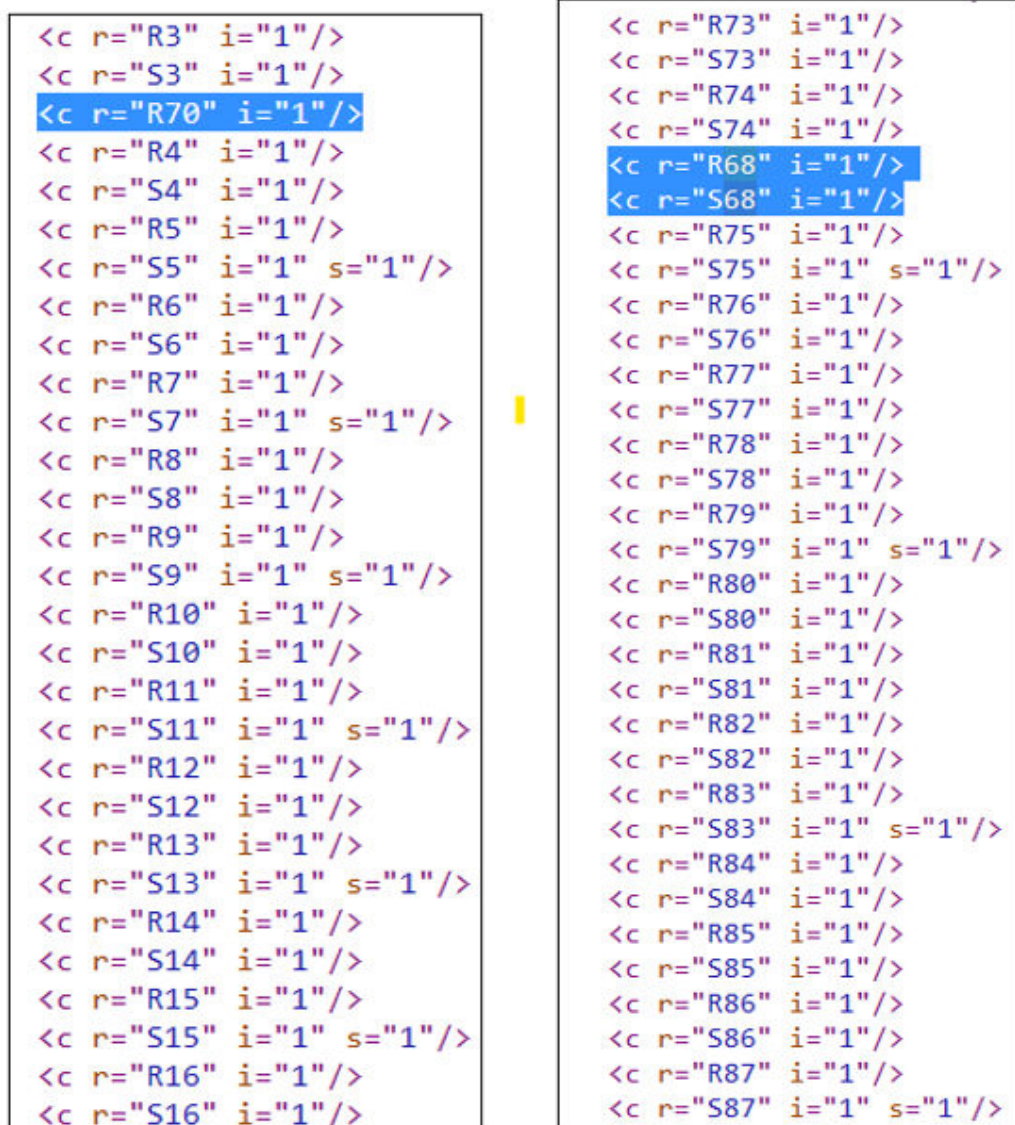
```

<c r="R99" i="1"/>
<c r="S99" i="1"/>
<c r="R71" i="1"/>
<c r="S71" i="1" s="1"/>
<c r="R100" i="1"/>
<c r="S100" i="1"/>
<c r="R31" i="1"/>
<c r="S31" i="1" s="1"/>
<c r="R101" i="1"/>
<c r="S101" i="1"/>

```

Close 'Rows look orderly...'

Finally, to address possible concerns that we may be cherrypicking calcChain, it is worth noting that while we surely cannot account for every one of the many odd patterns in this calcChain file, it does contain large portions of in-sequence calculations interrupted only by the cases discussed above (see the screenshots below). The anomalies with subject IDs do generally match the anomalies with calcChain sequences, even if the latter are more abundant.



```

<c r="R3" i="1"/>
<c r="S3" i="1"/>
<c r="R70" i="1"/>
<c r="R4" i="1"/>
<c r="S4" i="1"/>
<c r="R5" i="1"/>
<c r="S5" i="1" s="1"/>
<c r="R6" i="1"/>
<c r="S6" i="1"/>
<c r="R7" i="1"/>
<c r="S7" i="1" s="1"/>
<c r="R8" i="1"/>
<c r="S8" i="1"/>
<c r="R9" i="1"/>
<c r="S9" i="1" s="1"/>
<c r="R10" i="1"/>
<c r="S10" i="1"/>
<c r="R11" i="1"/>
<c r="S11" i="1" s="1"/>
<c r="R12" i="1"/>
<c r="S12" i="1"/>
<c r="R13" i="1"/>
<c r="S13" i="1" s="1"/>
<c r="R14" i="1"/>
<c r="S14" i="1"/>
<c r="R15" i="1"/>
<c r="S15" i="1" s="1"/>
<c r="R16" i="1"/>
<c r="S16" i="1"/>

```

```

<c r="R73" i="1"/>
<c r="S73" i="1"/>
<c r="R74" i="1"/>
<c r="S74" i="1"/>
<c r="R68" i="1"/>
<c r="S68" i="1"/>
<c r="R75" i="1"/>
<c r="S75" i="1" s="1"/>
<c r="R76" i="1"/>
<c r="S76" i="1"/>
<c r="R77" i="1"/>
<c r="S77" i="1"/>
<c r="R78" i="1"/>
<c r="S78" i="1"/>
<c r="R79" i="1"/>
<c r="S79" i="1" s="1"/>
<c r="R80" i="1"/>
<c r="S80" i="1"/>
<c r="R81" i="1"/>
<c r="S81" i="1"/>
<c r="R82" i="1"/>
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```

When the series is over we will post all code, materials, and data on a single ResearchBox. In the meantime:

<https://datacolada.org/appendix/109/>



### Author feedback.

Our policy is to solicit feedback from authors whose work discuss. We did not do so this time, given (1) the nature of the post, (2) that the claims made here were presumably vetted by Harvard University, (3) that the articles we cast doubt on have already had retraction requests issued, and (4) that discussions of these issues were already surfacing on social media and by some science journalists, without their having these facts, making a traditional multi-week back-and-forth with authors self-defeating.

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### Footnotes.

1. We know the co-authors did not fake the data both because all five authors, including Ariely, agreed that Ariely provided the data to the research team, and because emails from that time, and metadata from the relevant data files, show that the fraudulent data came to the research team from Ariely's computer via emails he sent to co-authors. [↗]
2. We suspect Study 2 is fake as well, but here we focus on Study 1. [↗]
3. There is a 9<sup>th</sup> out-of-sequence observation in the control condition, outside this screenshot [↗]
4. If curious or incredulous, run any .xlsx file in your computer through the program you use for unzipping files; you will find a bunch of files organized in folders [↗]

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